



TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	<i>117 - 0271 - TV</i>
Client/ Sequence /Town/Premises Numbers	205/2/117/49
Date Issued	May 11, 2004
Expiration Date	May 11, 2009

Corporation:

Yale University, School of Medicine Premises

Premises Location:

330 Cedar Street, New Haven, Connecticut 06510

Mailing Address:

2 Whitney Avenue 5th Floor, New Haven, Connecticut 06520-8297

Name of Responsible Official and Title:

John Pepper, Vice President, Finance and Administration

All the following attached pages, 2 through 63, are hereby incorporated by reference into this Title V Operating Permit.

ARTHUR J. ROCQUE, JR.
Arthur J. Rocque, Jr.
Commissioner

5/11/04
Date

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LIST OF ACRONYMS

<i>Acronym</i>	<i>Description</i>
acfm	Actual cubic feet per minute
ASC	Actual Stack Concentration
BACT	Best Available Control Technology
BAM	Bureau of Air Management
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CP/OP	Construction Permit/Operating Permit
CTG	Control Technology Guideline
DEP	Department of Environmental Protection
DERC	Discrete Emission Reduction Credit
dscf	Dry standard cubic feet
dscm	Dry standard cubic meters
EU	Emission Unit
EPA	Environmental Protection Agency
ERC	Emission Reduction Credit
FLER	Full load emission rate
GEU	Grouped Emission Unit
gph	Gallons per hour
gpm	Gallons per minute
GPSC	General Permit for Spray Coating
HAP	Hazardous Air Pollutant
HLV	Hazard Limiting Value
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MASC	Maximum Allowable Stack Concentration
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSR	New Source Review
PM	Particulate Matter
ppmv	Parts per million, volumetric basis
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RCSA	Regulations of Connecticut State Agencies
RMP	Risk Management Plan
SIC	Source Identification Code
SIP	State Implementation Plan
TOC	Total Organic Carbon
tph	Tons per hour
tpy	Tons per year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound

Title V Operating Permit

All conditions in Sections III, IV, VI and VII of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this permit in accordance with the Clean Air Act (CAA), as amended.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: University – school of higher education

Primary SIC: 8221

Other SIC:

Facility Mailing Address: 2 Whitney Avenue, 5th Floor New Haven, CT 06520-8297

Telephone Number: (203) 432 - 9077

B. PREMISES DESCRIPTION

The Yale University School of Medicine Premises located in New Haven, CT consists of a large number of buildings used for higher education, research and development laboratories, student housing, and administrative offices. Many of these buildings are interconnected, and many are heated and cooled by steam-generating plants owned by Yale. However, some buildings have their own sources of heat and hot water and emergency generators.

The School of Medicine Premises contains the Sterling Power Plant. Sterling houses a number of steam boilers capable of burning combinations of distillate fuel oil and natural gas. The premises also contains many emergency diesel and natural gas fired generators to provide power reliability. The Sterling Power Plant and all other fuel burning equipment on this premises shall operate under an annual NOx limit as described in the premises applicable requirements, Section III of this Title V permit.

Some of the above mentioned equipment is registered or permitted by the CT DEP, or operates pursuant to RCSA Section 22a-174-3b.

In addition to sources that have applicable requirements, this premises contains many small sources that typically have no applicable requirements. Such sources are often replaced, removed or added to the premises. To include such sources this permit lists four generic grouped emission unit descriptions for boilers with less than 10 MMBtu/hour heat input and which combust liquid fuel or natural gas, cooling towers, underground storage tanks with a capacity of 50,000 gallons or less and emergency engines that have no applicable requirements or which are subject to RCSA Section 22a-174-3b and which combust liquid fuel or natural gas.

Two operating scenarios are defined within this permit to allow the separation of applicable requirements between different fuel types. SOS1 is for the standard operation of all emissions units with combustion sources burning liquid fuel and AOS1 for combustion sources burning natural gas.

Section II: Emissions Units Information

A. EMISSIONS UNITS INFORMATION

Emission units are set forth in Table II.A.1. In addition to the sources that have applicable requirements, the premises contain many small sources that typically have no applicable requirements. Such sources are often replaced, removed or added to the premises. This permit lists four generic grouped emission unit descriptions. One for boilers with less than 10 MMBtu/hour heat input and which combust liquid fuel or natural gas (GEMU3), cooling towers (GEMU4), underground storage tanks with a capacity of 50,000 gallons or less (GEMU5), and emergency engines that have no applicable requirements or which are subject to RCSA Section 22a-174-3b and which combust liquid fuel or natural gas (GEMU6). The permittee shall maintain lists of such sources and update such lists as sources are replaced, added or removed and shall provide such lists to the commissioner upon request.

TABLE II.A.1: EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number
EMU1	Babcock & Wilcox Boiler # 8 Model FM103-70	Low NOx Burner & Internal FGR	CP/OP 117-0105
EMU2	Bigelow Boiler # 7	None	R 117-0995
EMU3	Bigelow Boiler # 5	None	R 117-0170
EMU4	Bigelow Boiler # 6	None	R 117-0171
EMU5	Nebraska Boiler # 9 Model NOS-2A-58	Low NOx Burner and FGR	CP/OP 117-0326
EMU6	Nebraska Boiler # 10 Model NOS-2A-58	Low NOx Burner and FGR	CP/OP 117-0220

Section II: Emissions Units Information

TABLE II.A.1: EMISSIONS UNIT DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, or Registration Number
EMU7	Binks 2001 HVLP Spray Coating Unit	None	GPSC 117-0356
EMU8	Nebraska Boiler # 11 Model NOS-2A-81	Low NOx Burner and FGR	CP/OP 117-0355
GEMU1	EMU2, EMU3, EMU4	None	See above
GEMU2	EMU5, EMU6	None	See above
GEMU3	Boilers with a heat input capacity of less than 10 MMBtu/hour and which burn liquid fuel or natural gas.	None	None
GEMU4	Cooling towers.	None	None
GEMU5	Underground Storage tanks with a capacity of 50,000 gallons or less.	None	None
GEMU6	Emergency Engines that have no applicable requirements or are subject to RCSA Section 22a-174-3b and which combust liquid fuel or natural gas.	None	None
GEMU7	Ethylene Oxide Sterilizers	None	None

Section II: Emissions Units Information

The permittee shall be allowed to operate under the following standard operating scenario (SOS1) and alternative operating scenario (AOS1) without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. The permittee shall record contemporaneously, the operating scenario under which each emissions unit is operating in a log to be kept at the subject premises.

TABLE II.A.2: EMISSIONS UNIT IDENTIFICATION, SOS AND AOS		
Identification of Operating Scenarios	Emissions Units Associated with the Scenarios	Description of Scenarios
SOS1	EMU1, EMU2, EMU3, EMU4, EMU5, EMU6, EMU7, EMU8 (GEMU1), (GEMU2), (GEMU3), (GEMU4), (GEMU5), (GEMU6), (GEMU7)	All emissions units associated with SOS1 shall be operated in accordance with applicable terms and conditions, and in accordance with best management practices while combustion units operate burning liquid fuels.
AOS1	EMU1, EMU2, EMU3, EMU4, EMU5, EMU6, EMU8 (GEMU1), (GEMU2), (GEMU3), (GEMU4), (GEMU5), (GEMU6), (GEMU7)	All emissions units associated with AOS1 shall be operated in accordance with applicable terms and conditions, and in accordance with best management practices while combustion units operate burning natural gas.

NOTE: All sources on the premises do not have to operate under the same operating scenario. Some sources may operate under SOS1 while others operate under AOS1.

Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this permit.

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	Annual Fuel Usage	Maximum distillate oil consumption shall not exceed 5,129,043 gallons for any consecutive twelve-month period.	Permit # 117-0105	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of fuel oil consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>
AOS1	Annual Fuel Usage	Maximum natural gas consumption shall not exceed 561 million cubic feet for any consecutive twelve-month period.	Permit # 117-0105	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 1.37 lbs./hour, 2. Less than or equal to 0.0170 lbs./MMBtu 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 0.650 lbs./hour, 2. Less than or equal to 0.0076 lbs./MMBtu 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NO _x	<ol style="list-style-type: none"> 1. Less than or equal to 11.31 lbs./hour, 2. Less than or equal to 0.140 lbs./MMBtu 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	NO _x	<ol style="list-style-type: none"> 1. Less than or equal to 11.9 lbs./hour, 2. Less than or equal to 0.140 lbs./MMBtu 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SO _x	<ol style="list-style-type: none"> 1. Less than or equal to 4.22 lbs./hour, 2. Less than or equal to 0.0522 lbs./MMBtu, and 3. Less than or equal to 0.05% sulfur by weight (dry basis) in distillate fuel oil 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of oil consumption. 2. Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods. <p><u>Record Keeping Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
AOS1	SO _x	<ol style="list-style-type: none"> 1. Less than or equal to 0.051 lbs./hour, 2. Less than or equal to 0.0006 lbs./MMBtu 	Permit # 117-0105	<p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII
SOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.320 lbs./hour, 2. Less than or equal to 0.004 lbs./MMBtu 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 2.93 lbs./hour, 2. Less than or equal to 0.0363 lbs./MMBtu 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 7.14 lbs./hour, 2. Less than or equal to 0.084 lbs./MMBtu 	Permit # 117-0105	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNIT 1 (EMU1) - Babcock Wilcox Boiler #8 Model No. FM-103-70, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	Hazardous Air Pollutants	Actual stack concentration less than or equal to the maximum allowable stack concentrations of hazardous air pollutants listed in RCSA 22a-174-29. Tables 29-1, 29-2, and 29-3.	Permit # 117-0105	<p><u>Monitoring and Testing Requirements</u> Verify emissions using latest edition of AP-42 emission factors.</p> <p><u>Record Keeping Requirements</u> Make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (22a-174-33(o)(2)).</p> <p><u>Reporting Requirements</u> 1. Provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA 22a-174-4(c)(1)). 2. See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

TABLE IILB: GROUPED EMISSIONS UNIT 1 (GEMU1) - BOILERS 5, 6 AND 7 DUAL FUEL FIRED				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NOx Burning Distillate Oil	Less than or equal to 0.20 lbs./MMBtu	RCSA 22a-174-22(e)(1)	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>
AOS1	NOx Burning Natural Gas	Less than or equal to 0.20 lbs./MMBtu	RCSA 22a-174-22(e)(1)	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B: GROUPED EMISSIONS UNIT 1 (GEMU1) - BOILERS 5, 6 AND 7 DUAL FUEL FIRED, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	TSP	Less than or equal to 0.20 lbs./MMBtu heat input	RCSA 22a-174-18(d)(1) RCSA 22a-174-33(o)(1)	<u>Monitoring Requirements</u> The permittee shall maintain daily records of fuel oil consumption. <u>Record Keeping Requirements</u> 1) The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. 2) The permittee shall calculate emissions every six months and include the method used to arrive at the calculated values. <u>Reporting Requirements:</u> See Section VII
AOS1	TSP	Less than or equal to 0.20 lbs./MMBtu heat input	RCSA 22a-174-18(d)(1) RCSA 22a-174-33(o)(1)	<u>Monitoring Requirements</u> Daily records of fuel consumption shall be kept for this emissions unit. <u>Record Keeping Requirements</u> 1) The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. 2) The permittee shall calculate emissions every six months and include the method used to arrive at the calculated values. <u>Reporting Requirements:</u> See Section VII

Section III: Applicable Requirements and Compliance Demonstration

TABLE III.B: GROUPED EMISSIONS UNIT 1 (GEMU1) - BOILERS 5, 6 AND 7 DUAL FUEL FIRED, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	Fuel Sulfur Content in Distillate Fuel Oil	Less than or equal to 0.05% sulfur by weight (dry basis)	Permit # 117-0105 RCSA 22a-174-33(o)(1)	<p><u>Monitoring and Testing Requirements:</u> Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods.</p> <p><u>Record Keeping Requirements</u></p> <ol style="list-style-type: none"> 1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. <p><u>Reporting Requirements:</u> See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

Note: Unless otherwise indicated, the limitations or restrictions in Table III.C below apply on a per unit basis.

Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	Annual Fuel Usage	Maximum distillate oil consumption shall not exceed 4,665,652 gallons for any consecutive twelve-month period.	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of fuel oil consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>
AOS1	Annual Fuel Usage	Maximum natural gas consumption shall not exceed 667.5 million cubic feet for any consecutive twelve-month period.	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 1.23 lbs./hour, 2. Less than or equal to 0.0170 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 0.58 lbs./hour, 2. Less than or equal to 0.0076 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and #10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	NO _x	<ol style="list-style-type: none"> 1. Less than or equal to 8.82 lbs./hour per boiler, 2. Less than or equal to 0.120 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	NOx	<ol style="list-style-type: none"> 1. Less than or equal to 3.05 lbs./hour per boiler, 2. Less than or equal to 0.040 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SOx and Fuel Sulfur Content	<ol style="list-style-type: none"> 1. Less than or equal to 3.83 lbs./hour, 2. Less than or equal to 0.052 lbs./MMBtu and 3. Less than or equal to 0.05% sulfur by weight (dry basis) in distillate fuel oil 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of oil consumption. 2. Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods. <p><u>Record Keeping Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	SO _x	<ol style="list-style-type: none"> 1. Less than or equal to 0.046 lbs./hour, 2. Less than or equal to 0.0006 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.29 lbs./hour, 2. Less than or equal to 0.0040 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 1.22 lbs./hour, 2. Less than or equal to 0.016 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and #10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 2.66 lbs./hour, 2. Less than or equal to 0.036 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and#10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 5.56 lbs./hour, 2. Less than or equal to 0.073 lbs./MMBtu 	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.C: GROUPED EMISSIONS UNIT 2 (GEMU2) - Nebraska Boilers #9 and #10 Model No. NOS-2AF-58, continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Hazardous Air Pollutants	Actual stack concentration less than or equal to the maximum allowable stack concentrations of hazardous air pollutants listed in RCSA 22a-174-29. Tables 29-1, 29-2, and 29-3.	Permit # 117-0326 and 117-0220	<p><u>Monitoring and Testing Requirements</u> Verify emissions using latest edition of AP-42 emission factors.</p> <p><u>Record Keeping Requirements</u> Make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (22a-174-33(o)(2)).</p> <p><u>Reporting Requirements</u> 3. Provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA 22a-174-4(c)(1)). 4. See Section VII</p>

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Table III.D: EMISSIONS UNIT EMU7 - Binks 2001 HVLP Spray Coating Unit	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Emissions of VOC, PM-10 and HAPs for SOS1 or AOS1	<p><u>Limitations or Restrictions</u> Emissions of VOC from the subject activity, including emissions from the cleanup of any article associated with any such activity, shall be less than five tons during every consecutive 12 months. [GPSC §5(a)(1)] Emissions of PM-10 from the subject activity shall be less than 3 tons during every consecutive 12 months. [GPSC §5(a)(3)] [GPSC 117-0356] Emissions of hazardous air pollutants ("HAPs"), as defined in RCSA section 22a-174-33(a)(5), from the subject surface coaters, including emissions from the cleanup of any article associated with any such activity, shall not exceed 5 TPY during any consecutive 12 months.</p> <p>i. <u>Monitoring and Testing Requirements</u> The permittee shall calculate the VOC, PM10 and HAP emissions emitted by the surface coater using a material balance of the VOC, PM-10 and HAPs in the paint. [RCSA §22a-174-33(j)(1)(K)(ii)]</p> <p>ii. <u>Record Keeping Requirements</u> The permittee shall maintain records of the amount of VOC, PM10 and HAP emissions, in tons, during each calendar month and each consecutive twelve months for the surface coater at the premises where the authorized activity takes place. [GPSC §5(b)(1)(B) & (C)] Consecutive twelve-month emissions shall be calculated each calendar month by adding the current calendar month's emissions to those of the previous eleven months. [GPSC §5(b)(2)]</p> <p>iii. <u>Reporting Requirements</u> If the Commissioner requests any information pertinent to the authorized activity or to compliance with this general permit, the permittee shall provide such information in writing within thirty days of such request. Such information shall be certified in accordance with subsection 5(i) of this general permit. [GPSC §5(c)]</p>

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Table III.D: EMISSIONS UNIT EMU7 - Binks 2001 HVLP Spray Coating Unit, continued	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Emissions of VOC, PM-10 and HAPs for SOS1 or AOS1, continued	<p>Upon learning of a violation of a condition of this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct such violation and mitigate its results, prevent further such violation, and report in writing such violation and such corrective action to the commissioner within five days of the permittee's learning of such violation. Such information shall be certified in accordance with subsection 5(i) of this general permit. [GPSC §5(e)]</p>
Coating Usage for SOS1 or AOS1	<p><u>Limitations or Restrictions</u> - None</p> <p>i. <u>Monitoring and Testing Requirements</u> The permittee shall monitor the coating and solvent usage by the surface coater using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]</p> <p>ii. <u>Record Keeping Requirements</u> The permittee shall make and keep records for the authorized activity. The permittee shall maintain the following records at the premises where the authorized activity takes place:</p> <ol style="list-style-type: none"> The aggregate amount, by volume, of each coating and solvent used each calendar month, and each consecutive twelve months. [GPSC §5(b)(1)(A)] Consecutive twelve-month usage shall be calculated each calendar month by adding the current month's usage to those of the previous eleven months. [GPSC §5(b)(2)] With respect to each coating or solvent used, as applied: [GPSC §5(b)(1)(I)] <ol style="list-style-type: none"> the name and identification number; the VOC content, expressed in pounds per gallon; all material safety data sheets or technical data sheets; all records of purchasing, including without limitation purchase orders, invoices, and packing slips; and all disposal manifests, including amount and type of material removed from the premises for disposal.

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Table III.D: EMISSIONS UNIT EMU-013 - Binks 2001 HVLP Spray Coating Unit, continued	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Coating Usage for SOS1 or AOS1, continued	<p>iii. <u>Reporting Requirements</u> If the Commissioner requests any information pertinent to the authorized activity or to compliance with this general permit, the permittee shall provide such information in writing within thirty days of such request. Such information shall be certified in accordance with subsection 5(i) of this general permit. [GPSC §5(c)]</p> <p>Upon learning of a violation of a condition of this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct such violation and mitigate its results, prevent further such violation, and report in writing such violation and such corrective action to the commissioner within five days of the permittee's learning of such violation. Such information shall be certified in accordance with subsection 5(i) of this general permit. [GPSC §5(e)]</p>
Hazardous Air Pollutants (HAPs) for SOS1 or AOS1	<p><u>Limitations or Restrictions</u> The subject activity shall comply with all applicable MASC limits calculated in accordance with RCSA Section 22a-174-29, Tables 29-1, 29-2 and 29-3. A coating, solvent, thinner, or other compound used in an authorized activity, either for production or on a trial basis, which will emit a hazardous air pollutant may be utilized only if the emissions from such activity complies with the applicable MASC. [GPSC §5(a)(4)] [GPSC 053-0111]</p> <p>i. <u>Monitoring and Testing Requirements</u> The permittee shall calculate the actual stack concentration (ASC) and the maximum allowable stack concentration (MASC) of each hazardous air pollutant (HAP) listed in Tables 29-1, 29-2 and 29-3 of RCSA §22a-174-29 that is emitted by this emission unit. The permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA §22a-174-33(j)(1)(K)(ii)] The MASC shall be calculated using the following equation (for discharge points <= 20 meters): $\text{MASC} = \frac{.885 * \text{HLV}(x + 1.08v^{0.64})^{1.56}}{v}$ where: x = 10 meters or the distance from the discharge point to the nearest property line v = the average actual flow rate (in cubic meters per second) HLV = the applicable hazard limiting value found in Tables 29-1, 29-2 and 29-3</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.D: EMISSIONS UNIT EMU-013 - Binks 2001 HVLP Spray Coating Unit, continued	
Pollutants or Process Parameters	Compliance Demonstration Requirements
Hazardous Air Pollutants (HAPs) for SOS1 or AOS1, continued	<p>The ASC shall be calculated using the HAP's content in the material as applied (1b/gal) and the maximum consumption rate (gal/hr) as a worst case. This gives actual stack emissions in lb/hr which can be converted to $\mu\text{g}/\text{m}^3$ using the following equation and the flow rate in acfm ($\mu\text{g}/\text{m}^3 = [\text{lb/hr} \times 453.6 \times 10^6 \mu\text{g}/\text{lb}] / [\text{acfm} \times 60 \text{ min/hr} \times 0.02832 \text{ m}^3/\text{ft}^3]$).</p> <p>ii. <u>Record Keeping Requirements</u> The permittee shall make and keep records for the authorized activity that demonstrate compliance with RCSA §22a-174-29 Tables 29- 1, 29-2 & 29-3 with respect to all coatings and solvents used, as applied. [GPSC §5(b)(D)]</p> <p>iii. <u>Reporting Requirements</u> If the Commissioner requests any information pertinent to the authorized activity or to compliance with this general permit, the permittee shall provide such information in writing within thirty days of such request. Such information shall be certified in accordance with subsection 5(i) of this general permit. [GPSC §5(c)]</p>

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Table III.E: GROUPED EMISSIONS UNIT (GEMU5) - Underground and Aboveground Storage Tanks

Operating Scenarios	Compliance Demonstration Requirements
SOS1	<p>For each underground and aboveground storage tank in GEMU4 that (1) was constructed, reconstructed or modified after July 23, 1984, and (2) has a capacity greater than 10, 560 gallons, the permittee shall maintain a record of the dimension of each such tank and an analysis showing the capacity of each such tank. Each such record shall be maintained for the life of the respective tank.</p> <p>[40 C.F.R. § 60.116b]</p>

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Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	Annual Fuel Usage	Maximum distillate oil consumption shall not exceed 5,176,017 gallons for any consecutive twelve-month period.	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of fuel oil consumption.</p> <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>
AOS1	Annual Fuel Usage	Maximum natural gas consumption shall not exceed 748.7 million cubic feet for any consecutive twelve-month period.	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements:</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 1.36 lbs./hour, 2. Less than or equal to 0.0170 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
AOS1	PM-10	<ol style="list-style-type: none"> 1. Less than or equal to 0.43 lbs./hour, 2. Less than or equal to 0.005 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

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Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1	NO _x	<ol style="list-style-type: none"> 1. Less than or equal to 9.78 lbs./hour per boiler, 2. Less than or equal to 0.120 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	NO _x	<ol style="list-style-type: none"> 1. Less than or equal to 3.42 lbs./hour per boiler, 2. Less than or equal to 0.040 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	SOx and Fuel Sulfur Content	<ol style="list-style-type: none"> 1. Less than or equal to 4.25 lbs./hour, 2. Less than or equal to 0.052 lbs./MMBtu, and 3. Less than or equal to 0.05% sulfur by weight (dry basis) in distillate fuel oil 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of oil consumption. 2. Analysis to determine sulfur content of liquid fuels shall be done according to the most current American Society for Testing and Materials (ASTM) Methods. <p><u>Record Keeping Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall obtain a fuel certification from the fuel supplier certifying the type of fuel and the weight percent of sulfur in the fuel (dry basis). 2. The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created. <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	SOx	<ol style="list-style-type: none"> 1. Less than or equal to 0.05 lbs./hour, 2. Less than or equal to 0.0006 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u> The permittee shall maintain daily records of natural gas consumption.</p> <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.326 lbs./hour, 2. Less than or equal to 0.004 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	VOC	<ol style="list-style-type: none"> 1. Less than or equal to 0.43 lbs./hour, 2. Less than or equal to 0.005 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements</u> The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
SOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 2.95 lbs./hour, 2. Less than or equal to 0.036 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of fuel oil consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/ Citations	Compliance Demonstration Requirements
AOS1	CO	<ol style="list-style-type: none"> 1. Less than or equal to 7.01 lbs./hour, 2. Less than or equal to 0.082 lbs./MMBtu 	Permit # 117-0355	<p><u>Monitoring and Testing Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall maintain daily records of natural gas consumption. 2. The permittee shall perform stack testing once every five years in coordination with the testing requirements in Section 22a-174-22(k) of the RCSA. <p><u>Record Keeping Requirements:</u></p> <p>The permittee shall make and keep records as described, for a minimum of five (5) years commencing on the date such records were created.</p> <p><u>Reporting Requirements:</u></p> <ol style="list-style-type: none"> 1. The permittee shall submit the records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. [RCSA Section 22a-174-4(c)(1)] 2. See Section VII

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT 8 (EMU8) - Nebraska Boiler #11 Model No. NOS-2A-81, Continued				
Operating Scenarios Identification	Pollutants or Process Parameters	Limitations or Restrictions	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
SOS1 and AOS1	Hazardous Air Pollutants	Actual stack concentration less than or equal to the maximum allowable stack concentrations of hazardous air pollutants listed in RCSA 22a-174-29. Tables 29-1, 29-2, and 29-3.	Permit # 117-0355	<p><u>Monitoring and Testing Requirements</u> Verify emissions using latest edition of AP-42 emission factors.</p> <p><u>Record Keeping Requirements</u> Make and keep records of hazardous air pollutant calculations. Retain such records and supporting documentation for a minimum of 5 years, commencing on the date such records were created (22a-174-33(o)(2)).</p> <p><u>Reporting Requirements</u> 1. Provide such records specified above to the Commissioner within thirty days of receipt of a written request from the Commissioner. (RCSA 22a-174-4(c)(1)). 2. See Section VII</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.G: PREMISES-WIDE GENERAL REQUIREMENTS		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Distillate Fuel Usage Shall Not Exceed 12.3 Million Gallons Per Consecutive 12 Months	Permit 117-0105	The permittee shall maintain daily records of fuel oil consumption for all fuel burning equipment on the premises.
Permitting Exemptions	RCSA § 22a-174-3b	The permittee shall comply with applicable provisions of RCSA Section 22a-174-3b for those sources on the premises that are subject to that Section.
Annual Emission Statements	RCSA § 22a-174-4	The permittee shall submit annual emission inventory statements requested by the Commissioner as specified in RCSA § 22a-174-4(c)(1).
Emergency Episode Procedures	RCSA § 22a-174-6	The permittee shall comply with the procedures for emergency episodes as specified in RCSA § 22a-174-6.
Public Availability of Information	RCSA § 22a-174-10	The public availability of information shall apply, as specified in RCSA § 22a-174-10.
Prohibition Against Concealment/ Circumvention	RCSA § 22a-174-11	The permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA § 22a-174-11.

Section III: Applicable Requirements and Compliance Demonstration

Table III.G: PREMISES-WIDE GENERAL REQUIREMENTS, continued		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Opacity	RCSA § 22a-174-18(a)(1)	For each stationary source that is subject to RCSA Section 22a-174-18(a)(1), the permittee shall not cause the emission of air pollutants from such source equal to or greater than 20% opacity, except that the permittee may discharge such air pollutants for a period or periods aggregating not more than five minutes in any 60 minutes, provided that emissions of such air pollutants do not exceed 40% opacity.
Emission Fees	RCSA § 22a-174-26	The permittee shall pay an emission fee in accordance with RCSA § 22a-174-26(d).
Total Annual Premises NO _x Limit	Clean Air Act §182(c)(6), RCSA § 22a-174-22, and Permits 117-0105, 117-0220, 117-0326, 117-0355	The permittee shall not exceed total actual annual NO _x emissions of 116.6 tons for all fuel burning equipment at the premises including the following : EMUs #1-6, & 8 and any sources at the Premises operating under Section 22a-174-3b of RCSA, and any other source of NO _x emissions added to the Premises within the five consecutive calendar year period that commences on the date of issuance of this permit. Compliance with this emissions cap shall be determined based on annual actual NO _x emissions, and enforced on a rolling twelve (12) month basis. As long as NO _x emissions from these emissions units do not exceed the annual cap, any NO _x emissions resulting from a modification or a new emissions unit shall be considered de minimis within the meaning of section 182(c)(6) and (f) of the Clean Air Act, 42 U.S.C. 7511a(c)(6) and (f), and section 22a-174-3a(6) of RCSA. If, during this five calendar year period, the permittee proposes to increase NO _x emissions above the emissions cap, then such emissions increase shall be considered to be a major modification subject to major new source review.

Section III: Applicable Requirements and Compliance Demonstration

Table III.G: PREMISES-WIDE GENERAL REQUIREMENTS, continued		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Total Annual Premises PM-10 Limit	Permits 117-0105, 117-0220, 117-0326, 117-0355	The permittee shall not exceed total actual annual PM-10 emissions of 15.66 tons for all fuel burning equipment at the premises including the following : EMUs #1-6 & 8 and any sources at the Premises operating under Section 22a-174-3b of RCSA.
Total Annual Premises SOx Limit	Permits 117-0105, 117-0220, 117-0326, 117-0355	The permittee shall not exceed total actual annual SOx emissions of 44.43 tons for all fuel burning equipment at the premises including the following : EMUs #1-6 & 8 and any sources at the Premises operating under Section 22a-174-3b of RCSA.
Total Annual Premises VOC Limit	Permits 117-0105, 117-0220, 117-0326, 117-0355	The permittee shall not exceed total actual annual VOC emissions of 21.43 tons for all fuel burning equipment at the premises including the following : EMUs #1-6 & 8 and any sources at the Premises operating under Section 22a-174-3b of RCSA.
Total Annual Premises CO Limit	Permits 117-0105, 117-0220, 117-0326, 117-0355	The permittee shall not exceed total actual annual CO emissions of 130.5 tons for all fuel burning equipment at the premises including the following : EMUs #1-6 & 8 and any sources at the Premises operating under Section 22a-174-3b of RCSA.

Section IV: Compliance Schedule

TABLE IV: COMPLIANCE SCHEDULE				
Emissions units	Applicable regulations	Steps required for achieving compliance (Milestones)	Date by which each step is to be completed	Dates for monitoring, record keeping, and reporting
		No further steps are required for achieving compliance milestones.		

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

- A.** This permit does not relieve the permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the Commissioner.
- C.** Odors: The permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to a nuisance odor beyond the property boundary of the premises as set forth in RCSA Section 22a-174-23.
- D.** Noise: The permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA Section 22a-69-1 through 22a-69-7.4, inclusive.
- E.** Hazardous Air Pollutants (HAPs): The permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA Section 22a-174-29.
- F.** Open Burning: The permittee is prohibited from conducting open burning, except as may be allowed by CGS Section 22a-174(f).
- G.** Fuel Sulfur Content: The permittee shall not use #2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS Section 22a-21a.

Section VI: Permit Shield

NO PERMIT SHIELD GRANTED

Section VII: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

B. CERTIFICATIONS [RCSA § 22a-174-33(b)]

In accordance with Section 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in Section 22a-174-2a(a) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to Section 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in Section 22a-174-2a(a)(5) of the RCSA:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.”

C. SIGNATORY RESPONSIBILITY [RCSA § 22a-174-2a(a)]

If an authorization pursuant to Section 22a-174-2a(a) of the RCSA is no longer effective because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of Section 22a-174-2a(a)(2) of the RCSA shall be submitted to the Commissioner prior to or together with the submission of any applications, reports, forms, compliance certifications, documents or other information which is signed by an individual or a duly authorized representative of such individual pursuant to Section 22a-174-2a(a)(2) of the RCSA.

Section VII: Title V Requirements

D. ADDITIONAL INFORMATION [RCSA § 22a-174-33(j)(1)(X)]

The permittee shall submit additional information in writing, at the Commissioner's request, within thirty (30) days of receipt of notice from the Commissioner or by such other date specified by the Commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending the permit or to determine compliance with the permit.

In addition, within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the Commissioner.

E. MONITORING REPORTS [RCSA § 22a-174-33(o)(1)]

A permittee, required to perform monitoring pursuant this permit, shall submit to the Commissioner, on forms prescribed by the Commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

F. PREMISES RECORDS [RCSA § 22a-174-33(o)(2)]

Unless otherwise required by this permit, the permittee shall make and keep records of all required monitoring data and supporting information for at least five (5) years from the date such data and information were obtained. The permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the Commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;

Section VII: Title V Requirements

7. The results of such analyses;
8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA § 22a-174-33(q)(1)]

The permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner a progress report on forms prescribed by the Commissioner, and certified in accordance with Section 22a-174-2a(a)(5) of the RCSA. Such report shall describe the permittee's progress in achieving compliance under the compliance plan schedule contained in this permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in the permit which the permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this permit which the permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the permittee expects to meet them.

Any progress report prepared and submitted pursuant to Section 22a-174-33(q)(1) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

H. COMPLIANCE CERTIFICATIONS [RCSA § 22a-174-33(q)(2)]

The permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner, a written compliance certification certified in accordance with Section 22a-174-2a(a)(5) of the RCSA and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to Section 22a-174-33(q)(2) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA § 22a-174-33(p)]

Notwithstanding Subsection D of Section VII of this permit, the permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten (10) days after such deviation commenced.

J. PERMIT RENEWAL [RCSA § 22a-174-33(j)(1)(B)]

All of the terms and conditions of this permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with Sections 22a-174-33(g), -33(h), and -33(i) of the RCSA.

Section VII: Title V Requirements

K. OPERATE IN COMPLIANCE [RCSA § 22a-174-33(j)(1)(C)]

The permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA § 22a-174-33(j)(1)(G)]

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with Sections 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. impose limits on emissions from items or activities specified in Sections 22a-174-33(g)(3)(A) and (B) of the RCSA unless imposition of such limits is required by an applicable requirement.

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA § 22a-174-33(j)(1)(M)]

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

O. SEVERABILITY CLAUSE [RCSA § 22a-174-33(j)(1)(R)]

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA § 22a-174-33(j)(1)(T)]

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

Section VII: Title V Requirements

Q. PERMIT REQUIREMENTS [RCSA § 22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the permittee's obligation to comply with this permit.

R. PROPERTY RIGHTS [RCSA § 22a-174-33(j)(1)(W)]

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and Section 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA § 22a-174-33(o)(3)]

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA § 22a-174-33(r)(2)]

The permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. constitute a modification under 40 CFR 60, 61 or 63,
2. exceed emissions allowable under the subject permit,
3. constitute an action which would subject the permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or
4. constitute a non-minor permit modification pursuant to Section 22a-174-2a(d)(4) of the RCSA.

At least seven (7) days before initiating an action specified in Section 22a-174-33(r)(2)(A) of the RCSA, the permittee shall notify the Administrator and the Commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA § 22a-174-33(r)(2)(A)]

Written notification required under Section 22a-174-33(r)(2)(A) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

Section VII: Title V Requirements

V. TRANSFERS [RCSA § 22a-174-2a(g)]

No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with Section 22a-174-2a(g) of the RCSA.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS Section 22a-6m.

W. REVOCATION [RCSA § 22a-174-2a(h)]

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with Section 4-182(c) of the Connecticut General Statutes, Section 22a-3a-5(d) of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with Section 22a-174-33(r) of the RCSA, Connecticut General Statutes Section 22a-174c, or Section 22a-3a-5(d) of the RCSA.

X. REOPENING FOR CAUSE [RCSA § 22a-174-33(s)]

This permit may be reopened by the Commissioner, or the Administrator in accordance with Section 22a-174-33(s) of the RCSA.

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.